

# OPEN STANDPIPE PIEZOMETER

## DATASHEET

### Model EPP-10SP





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The Encardio Rite model EPP-10SP Open Standpipe Piezometer is designed for simple and accurate measurement of groundwater levels and its variation with time in boreholes and wells. It is particularly useful for monitoring groundwater tables near dams, rivers, high-rise buildings, farmhouses, factories, and residential areas. The piezometer is ideal for applications where reliable and cost-effective groundwater level monitoring is required.

The EPP-10SP Open Standpipe Piezometer consists of a series of PVC standpipes and a slotted pipe covered with geo-textile at the bottom. Once installed in the borehole of desired depth, the groundwater seeps into the standpipe through the slotted end and attains a level equal to sorrounding groundwater table. The level of water in the riser pipe is determined by the graduated water level sounder lowered from the ground surface, giving an accurate reading of sorrunding pore pressure. The device's simplicity and reliability make it ideal for long-term monitoring.







## 🕒 FEATURES

- <u>Reliable and rugged:</u> The piezometer is built for durability, making it suitable for long-term monitoring in various environments.
- <u>Simple and economical</u>: Easy to install and maintain, providing an economical solution for groundwater monitoring.
- Portable water level sounder: The water level sounder is lightweight and easy to carry, with a flat cable that is high tensile, virtually non-expandable, waterproof, and corrosion-resistant.
- Accurate: Provides precise groundwater level measurement with a high-resolution graduated tape.
- Easy to read: Easy-to-read audio and visual signals.
- <u>Heavy duty construction</u>: Standpipe constructed from durable PVC to withstand harsh environmental conditions.
- Locking arrangement: A locking cover with a universal key is provided to protect the standpipe from external contamination.

## 🔀 SYSTEM COMPONENTS

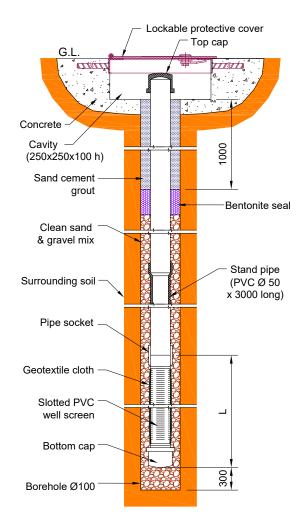
**Slotted pipe:** It consists of PVC slotted pipe covered with geo-textile material, to allow water flow while preventing debris entry. It is available is 1 m lengths as standard. 2 m or 3 m lengths are also available on request. Bottom end of slotted pipe is plugged with a suitable PVC cap.

**Standpipe:** It consists of durable rigid PVC pipe, 3 m long. The pipe features inbuilt socket for jointing, allowing for longer installations by connecting multiple tubes together using an appropriate adhesive or resin.

**Top cap:** It is attached to the upper end of the topmost standpipe.

**MS lockable protective manhole cover**: It is available on request, to safeguard the installation from moving vehicles and other potential site damage.

Water Level Sounder (Model EPP-10/6): A robust, lightweight device used to measure the groundwater level in the standpipe. The sounder consists of a probe connected to a flat cable with high-tensile steel tape, providing both audio and visual signals when water is detected.



Typical installation scheme of EPP-10SP Open Standpipe





#### EPP-10SP Open standpipe piezometer

Porous tip	<ul><li>PVC slotted pipe, 50 mm o.d., 1 m long, covered with geo-textile.</li><li>2 m, 3 m lengths available on request.</li></ul>
Standpipe	50 mm o.d., 44.5 i.d., 3 m length PVC pipe with an inbuilt socket for jointing
EPP-10/6 Water le	vel sounder

Length-metric (m)	30, 50, 100, 150, 200, 300
Resolution-metric	1 mm standard
Length-imperial (ft)	50, 100, 150, 300, 500
Resolution-imperial	0.1" standard
Cable/tape	High tensile virtually non- expandable, non-stretch, PE insulated graduated flat steel tape 10 mm wide x 2 mm thick
Probe	Stainless steel 12.7 mm dia.
Power supply	9 V PP-3 size battery
Audio signal	Sound buzzer
Visual signal	Green LED light signal

Please refer to datasheet for EPP-10/6 water level sounder for more details.

### >> ORDERING INFORMATION

- Length of casagrande tip.
- Depth of boreole (for riser pipe estimation).
- Manhole cover required or not.
- Length ad unit for water level sounder.

### **Ordering code**

**EPP-10SP-L-Y** [L= length of slotted pipe, Y= No. of standpipes]

**EPP-10/6-L-X** [L= length, X = unit (m or ft)]



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